

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number:

10/694586

Source:

~~10/694586~~ IFW

Date Processed by STIC:

11/30/4

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 11/30/2004

PATENT APPLICATION: US/10/694,586

TIME: 15:34:27

Input Set : N:\CrF3\RULE60\10694586.raw

Output Set: N:\CRF4\11302004\J694586.raw

1 <110> APPLICANT: Kandimalla, Ekambar R.

2 Zhao, Qiuyan

3 Yu, Dong

4 Agrawal, Sudhir

5 <120> TITLE OF INVENTION: Modulation of Immunostimulatory Activity of Immunostimulatory

6 Modified oligodeoxynucleotide phosphorothioate Analogs by

7 Positional Chemical Changes

8 <130> FILE REFERENCE: HYZ-479CP (47508.577)

9 <140> CURRENT APPLICATION NUMBER: US/10/694,586

10 <141> CURRENT FILING DATE: 2003-10-27

11 <150> PRIOR APPLICATION NUMBER: US/09/965,116

12 <151> PRIOR FILING DATE: 2001-09-26

13 <150> PRIOR APPLICATION NUMBER: US 09/712,898

14 <151> PRIOR FILING DATE: 2000-11-15

15 <150> PRIOR APPLICATION NUMBER: US 60/235,452

16 <151> PRIOR FILING DATE: 2000-09-26

17 <150> PRIOR APPLICATION NUMBER: US 60/235,453

18 <151> PRIOR FILING DATE: 2000-09-26

19 <160> NUMBER OF SEQ ID NOS: 112

20 <170> SOFTWARE: FastSEQ for Windows Version 4.0

22 <210> SEQ ID NO: 1

23 <211> LENGTH: 18

24 <212> TYPE: DNA

25 <213> ORGANISM: Artificial Sequence

26 <220> FEATURE:

27 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs

28 <400> SEQUENCE: 1

29 ctatctgacg ttctctgt

18

31 <210> SEQ ID NO: 2

32 <211> LENGTH: 18

33 <212> TYPE: DNA

34 <213> ORGANISM: Artificial Sequence

35 <220> FEATURE:

36 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs

37 <220> FEATURE:

38 <221> NAME/KEY: modified_base

39 <222> LOCATION: 9

40 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine

41 <400> SEQUENCE: 2

42 ctatctgacg ttctctgt

18

44 <210> SEQ ID NO: 3

45 <211> LENGTH: 18

46 <212> TYPE: DNA

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47 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
50 <220> FEATURE:
51 <221> NAME/KEY: modified_base
52 <222> LOCATION: 10
53 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
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58 <211> LENGTH: 18
59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
63 <220> FEATURE:
64 <221> NAME/KEY: modified_base
65 <222> LOCATION: 9
66 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
67 <400> SEQUENCE: 4
68      ctatctgacg ttctctgt                                18
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 18
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
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78 <222> LOCATION: 10
79 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
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84 <211> LENGTH: 16
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: synthesis of end-blocked CpG-PS modified oligodeoxynucleotide
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94 <211> LENGTH: 18
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96 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: synthesis of end-blocked CpG-PS modified oligodeoxynucleotide
99      phosphorothioate

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Input Set : N:\Crif3\RULE60\10694586.raw

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115 <213> ORGANISM: Artificial Sequence
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118 <220> FEATURE:
119 <221> NAME/KEY: modified_base
120 <222> LOCATION: 10
121 <223> OTHER INFORMATION: g = 1',2'-Dideoxyribose
122 <400> SEQUENCE: 9
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126 <211> LENGTH: 18
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
131 <220> FEATURE:
132 <221> NAME/KEY: modified_base
133 <222> LOCATION: 8
134 <223> OTHER INFORMATION: g = 1',2'-Dideoxyribose
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136     cctactagcg ttctcatc                                18
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139 <211> LENGTH: 18
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143 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
144 <220> FEATURE:
145 <221> NAME/KEY: modified_base
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148 <400> SEQUENCE: 11
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151 <210> SEQ ID NO: 12
152 <211> LENGTH: 18
153 <212> TYPE: DNA

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154 <213> ORGANISM: Artificial Sequence
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156 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
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158 <221> NAME/KEY: modified_base
159 <222> LOCATION: 6
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161 <400> SEQUENCE: 12
162      cctactagcg ttctcatc
164 <210> SEQ ID NO: 13
165 <211> LENGTH: 18
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
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169 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
170 <220> FEATURE:
171 <221> NAME/KEY: modified_base
172 <222> LOCATION: 5
173 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
174 <400> SEQUENCE: 13
175      cctactagcg ttctcatc
177 <210> SEQ ID NO: 14
178 <211> LENGTH: 18
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
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183 <220> FEATURE:
184 <221> NAME/KEY: modified_base
185 <222> LOCATION: 4
186 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
187 <400> SEQUENCE: 14
188      cctactagcg ttctcatc
190 <210> SEQ ID NO: 15
191 <211> LENGTH: 18
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
196 <220> FEATURE:
197 <221> NAME/KEY: modified_base
198 <222> LOCATION: 4
199 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
200 <400> SEQUENCE: 15
201      cctactagcc ttctcatc
203 <210> SEQ ID NO: 16
204 <211> LENGTH: 18
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence

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207 <220> FEATURE:
208 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
209 <220> FEATURE:
210 <221> NAME/KEY: modified_base
211 <222> LOCATION: 11
212 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
213 <400> SEQUENCE: 16
214      cctactagcg ttctcatc                                     18
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217 <211> LENGTH: 18
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
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222 <220> FEATURE:
223 <221> NAME/KEY: modified_base
224 <222> LOCATION: 12
225 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
226 <400> SEQUENCE: 17
227      cctactagcg ttctcatc                                     18
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230 <211> LENGTH: 18
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
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234 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
235 <220> FEATURE:
236 <221> NAME/KEY: modified_base
237 <222> LOCATION: 13
238 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
239 <400> SEQUENCE: 18
240      cctactagcg ttctcatc                                     18
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248 <220> FEATURE:
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250 <222> LOCATION: 14
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252 <400> SEQUENCE: 19
253      cctactagcg ttctcatc                                     18
255 <210> SEQ ID NO: 20
256 <211> LENGTH: 18
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : N:\CrF3\RULE60\10694586.raw
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5
Seq#:6; Line(s) 88
Seq#:7; Line(s) 98
Seq#:24; Line(s) 313
Seq#:25; Line(s) 326
Seq#:26; Line(s) 339
Seq#:27; Line(s) 352
Seq#:28; Line(s) 366
Seq#:29; Line(s) 379
Seq#:30; Line(s) 392
Seq#:31; Line(s) 405
Seq#:32; Line(s) 419
Seq#:33; Line(s) 432
Seq#:34; Line(s) 445
Seq#:48; Line(s) 627
Seq#:49; Line(s) 640
Seq#:50; Line(s) 653
Seq#:51; Line(s) 666
Seq#:52; Line(s) 679
Seq#:53; Line(s) 692
Seq#:54; Line(s) 705
Seq#:55; Line(s) 718
Seq#:56; Line(s) 731
Seq#:57; Line(s) 744
Seq#:58; Line(s) 757
Seq#:59; Line(s) 770
Seq#:60; Line(s) 783
Seq#:61; Line(s) 796
Seq#:62; Line(s) 809
Seq#:63; Line(s) 823
Seq#:64; Line(s) 836
Seq#:65; Line(s) 849
Seq#:66; Line(s) 862
Seq#:67; Line(s) 875
Seq#:68; Line(s) 888
Seq#:69; Line(s) 902
Seq#:70; Line(s) 911
Seq#:71; Line(s) 924
Seq#:72; Line(s) 937
Seq#:73; Line(s) 951
Seq#:74; Line(s) 960
Seq#:75; Line(s) 973
Seq#:76; Line(s) 986

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Seq#:77; Line(s) 999
Seq#:78; Line(s) 1008
Seq#:79; Line(s) 1021
Seq#:80; Line(s) 1034
Seq#:81; Line(s) 1047
Seq#:82; Line(s) 1060
Seq#:83; Line(s) 1073
Seq#:84; Line(s) 1087

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/694,586

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